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APPLICANT : KOBE STEEL LTD;

INVENTOR : MATSUBARA KAZUO;

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TITLE : PRODUCTION OF CALCIUM PHOSPHATE COMPACT

ABSTRACT : PURPOSE: To obtain the title compact prevented from crack development by adding both water and a specific compound to a mixture comprising a calcium alkoxide and an alkyl ester of phosphorus oxyacid and by hydrolysis and polymerization of the resultant system followed by drying and then calcination.

CONSTITUTION: (A) A calcium alkoxide (e.g., calcium diethoxide) and (B) an alkyl ester of phosphorus oxyacid (e.g., triethyl phosphite) are mixed in a non- aqueous solvent (e.g., ethanol) followed by adding, in the presence of water, (C) an organic low-molecular weight carboxylic acid or its salt or a derivative therefrom (e.g., acetic acid) to the system, and the resultant system is hydrolyzed and polymerized to produce a bulky calcium phosphate gel, which is then dried and calcined.

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